# **Project Report**

# **Data-Driven Innovations in Supply Chain**

# Management with qlik Insights

### 1.Introduction:

This project aims to revolutionize supply chain management through data-driven insights using qlik. Leveraging advanced analytics, it seeks to optimize logistics, forecasting, and inventory management, enhancing operational efficiency and responsiveness.

#### 1.1 Overview:

This transformative project endeavours to reshape the landscape of supply chain management by harnessing the power of Qlik's data-driven insights. Employing cutting-edge analytics, it strives to revolutionize key facets such as logistics, forecasting, and inventory management, with the overarching goal of elevating operational efficiency and responsiveness to new heights.

## 1.2 Purpose:

Qlik's advanced analytics features to analyse historical logistics data, identify patterns, and optimize transportation routes. Implement real-time tracking and monitoring solutions to enhance visibility into the movement of goods, reduce lead times, and minimize transportation costs. Implement real-time analytics to facilitate quick decision-making in response

to unforeseen events or changes in demand, ensuring a proactive and responsive supply chain.

#### 1.3 Technical Architecture:

The study emphasizes the positive impact on logistics optimization, forecasting accuracy, and inventory management efficiency. Moreover, it delves into the broader landscape of data-driven supply chain

transformations, exploring diverse analytical techniques and technologies. The findings showcase successful implementations, demonstrating notable

improvements in operational efficiency and responsiveness across various industry sectors. In addition, it examines the challenges and opportunities associated with the adoption of data-driven insights in supply chain contexts. The literature emphasizes the need for organizations to develop robust data governance frameworks and cultivate a data-driven culture to fully unlock the potential benefits.

# 2. Problem Understanding:

- Create visualizations to showcase the demographic distribution of Supply chain management
- Explore any correlations between usage and improvements.
- Analyse how Data-Driven Innovations in Supply Chain Management have affected businesses, especially in sectors like banking, telecommunications, and e-commerce.
- Evaluate the impact of Data-Driven Innovations in Supply Chain Management on sales, customer onboarding, and operational efficiency.

# 2.1Business problem:

This transformative project endeavours to reshape the landscape of supply chain management by harnessing the power of Qlik's data-driven insights. Employing cutting-edge analytics, it strives to revolutionize key facets such as logistics, forecasting, and inventory management, with the overarching goal of elevating operational efficiency and responsiveness to new heights.

# 2.2Business requirements:

Implement a robust data integration strategy to aggregate and centralize relevant data from diverse supply chain sources. Utilize Qlik's advanced visualization capabilities to create intuitive and dynamic dashboards providing stakeholders with clear insights into the entire supply chain ecosystem

## 2.3Literature Survey:

A literature survey on the project theme of revolutionizing supply chain management through data-driven insights and advanced analytics reveals a growing body of research and scholarly articles focused on similar endeavours. Studies underscore the increasing recognition of the pivotal role

that data analytics plays in transforming traditional supply chain processes. Research highlights the effectiveness of leveraging advanced analytics tools,

such as Qlik, to enhance visibility and decision-making in supply chain operations.

#### 3.Data collection:

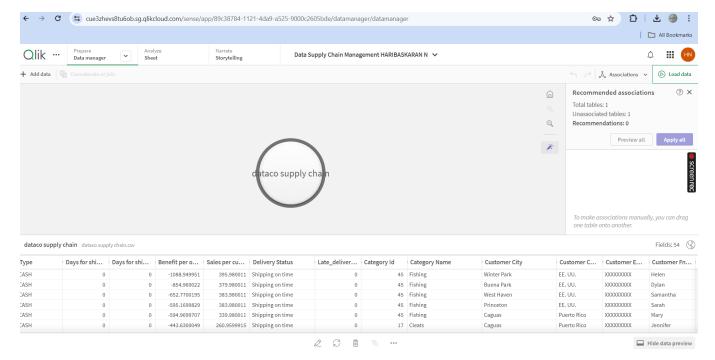
Data collection is the process of gathering and measuring information on variables of interest in an established, systematic fashion that enables one to answer stated research questions, test hypotheses, evaluate outcomes, and generate insights from the data.

#### 3.1Collect the dataset:

Dataset can be collected by downloading the dataset by click the link in the dataset icon. After done the kaggle login your files will be download then, you need to upload it into the github page.

# 3.2Collect the data with qlik sense:

Then open the Qlik cloud by login into it.And, then extract the file to upload into glik cloud by click on +Add data.



### 4. Data Preparation:

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete

### 4.1Prepare the data for Visualization:

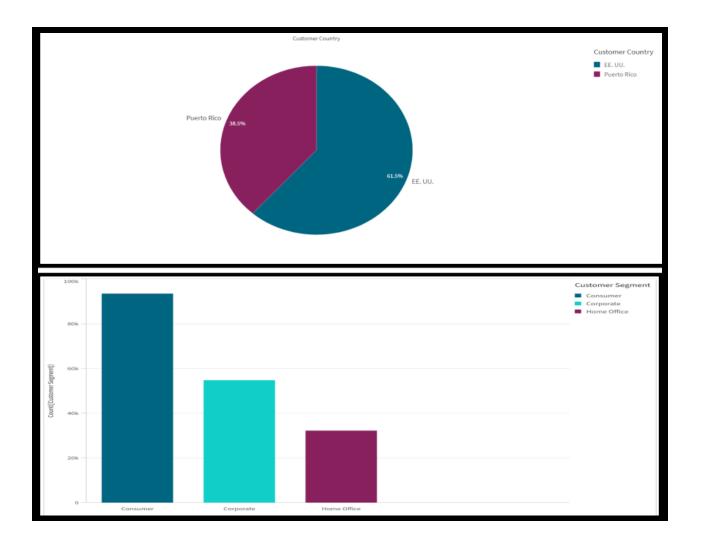
The preparation of data visualization is the process that helps to make the data easily understandable and ready for creating visualizations to gain insights into performance and efficiency. Since the data is already cleaned, we can move to visualization.

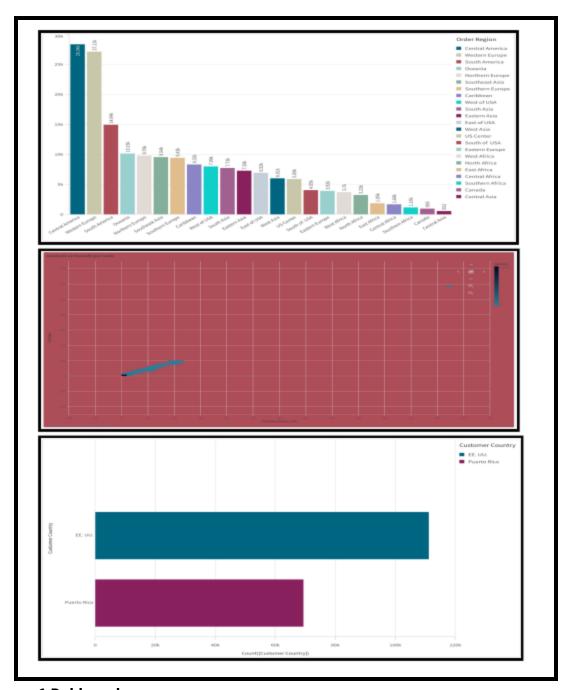
#### 5.Data Visualization:

The number of unique visualizations that can be created with a given dataset. Some common types of visualizations that can be used to analyse the performance and efficiency of banks include bar charts, line charts, heat maps, scatter plots, pie charts, Maps, etc.

#### 5.1Visualization:

These visualizations can be used to compare performance, track changes over time, show distribution and relationships between variables, breakdown of revenue and customer demographics, workload, resource allocation, and location of banks.





### 6.Dahboard:

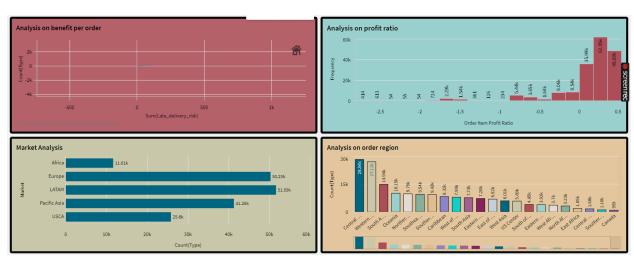
A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries.

### 6.1Response and design of Dashboard:

Dashboard can be used to track key performance indicators (KPIs), monitor

## performance metrics, and display data in the form of charts, graphs, and tables





#### 7 STORY:

A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos

Sales
36.78M

Profit Margin
3.97M

No. of sales done in
Asian Country

No.of sales done in
US Country

Profit margin in
Asian country

Profit margin in
US country

US country

